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Group Art Unit: 1744

In the Specification:

Please amend specification paragraphs [0068], [0073], [0074], [0068] and [0086] as shown below:

[0068] Referring now to FIGS. 14-15, the lower housing 240 of the nozzle assembly 220 includes a venturi well 245 for receiving the solution suction fitting of a venturi (see FIGS. 3, 13, 16) for fluidly and sealingly connecting the venturi 150 to a solution suction conduit 252. The venturi 150 is further supported by a venturi cradle 254. Lower housing 240 includes a number of alignment bosses 243 for aligning lower housing 240 with upper housing 230. Dispensing nozzle end 248 is configured to receive ~~a~~ dispensing nozzle 160. Solution supply tube groove 222 is configured to receive solution supply tube 122. The solution suction conduit 252 depends from lower housing 240. Lower housing 240 further includes a depending skirt 242 forming an annular recess 350 between skirt 242 and solution suction conduit 252 on the lower face of lower housing 240. Annular recess 350 is configured to receive retainer cap 270 of the solution reservoir assembly 210, so that the solution suction conduit 252 is received in second well 280 and venturi well 245 is received in first well 278. Lower housing 240 further comprises a pair of opposing radial projections 352 projecting inwardly from skirt 242 and adapted to be axially received in grooves 294 of retainer cap 270, such that upon full insertion of retainer cap 270 into annular recess 350, projections 352 are fully engaged in grooves 294 such that rotation of lower housing 240 with respect to retainer cap 270 will direct projections 352 into circumferential grooves 298. Lower housing 240 further comprises an over-rotation stop 354 having a face parallel to and offset from a longitudinal centerline of lower housing 240. Over-rotation stop 354 is positioned to align with over-rotation projection 216 to limit the amount of rotation of the solution reservoir 210 with respect to the nozzle assembly 220.

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[0073] FIGS. 17-22 disclose a third embodiment of the solution spray assembly ~~400~~ 410 according to the invention. The solution reservoir assembly 410 comprises a unitary blow-molded solution reservoir 411 having an upper surface 414 and a front face 419 having a truncated lower portion 417. A reservoir neck 412 projects upwardly from upper surface 414.

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Solution reservoir 411 is integrally molded with solution reservoir neck 412. The exterior of solution reservoir neck 412 is molded to include standard threads 488 for receiving a cap for sealing the reservoir assembly 410 during storage and transport. The exterior of solution reservoir neck 412 is further molded to include axial grooves 494, circumferential grooves 498, and detent 502, analogous to the axial grooves 294, circumferential grooves 498 and detent 302 as described above with reference to FIGS. 8-10 depicting retainer cap 270. Reservoir neck 412 further comprises an integrally formed insert 472 having an upper annular wall 496 flush with the upper end of neck 412. Annular wall 496 extends inwardly from neck 412 to a depending proximately cylindrical wall 474 that forms a well 480 with a lower annular wall 476. Insert 472 includes a vent aperture 486 passing through annular wall 496 to the interior of solution reservoir 411. Solution reservoir 411 further includes an over-rotation projection 416 projecting upwardly from upper surface 414 along a longitudinal axis of reservoir 411.

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[0074] Referring to FIGS. 18-20, the interior of solution reservoir neck 412 comprises a solution reservoir neck channel 470. Channel 470 is covered at the upper end of reservoir neck 412 by insert 472, which, in the preferred embodiment, is integrally molded with reservoir neck 412. Insert 472 includes ~~an~~ upper annular wall 496, ~~a~~ depending cylindrical wall 474, ~~a~~ lower annular wall 476, and an aperture 478 in lower annular surface 476. Upper annular surface 496 is configured for alignment with the top of solution reservoir neck 412, with depending cylindrical wall 474 depending into channel 470. Depending cylindrical wall 474 and lower annular wall 476 define well 480, centered in solution reservoir neck 412. Aperture 478 fluidly connects well 480 with the interior of solution reservoir 411. Insert 472 further includes ~~a~~ vent aperture 486 in upper annular wall 496 fluidly connecting the interior of solution reservoir 411 to atmosphere.

[0086] A branch line 68 is connected to a spring-biased valve 70 which has a fitting 72. The foregoing is a description of the upright water extraction cleaning machine as disclosed in the U.S. Patent No. 6,041,472. According to the invention, a connector ~~72~~ 74 is mounted to the fitting 72 to open the valve 70. The connector 74 is connected to a spray wand 78 through a tube 76. The spray wand 78 is adapted to spray the solution onto a carpet 80.

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